



Please type a plus sign (+) inside this box → +

#9  
11-19-03  
DRS

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>		Application Number	09/931,593
		Filing Date	August 16, 2001
		First Named Inventor	James T. Hanson
		Group Art Unit	2622
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	483	Attorney Docket Number	RTN-144PUS

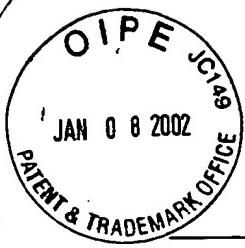
ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____  <input type="checkbox"/> Remarks	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return-receipt postcard; Form 1449 & 33 references; Letter 37 CFR Section 1.56
In the event a petition for extension of time is required by this paper and not otherwise provided, such petition is hereby made and authorization is provided herewith to charge deposit account No. 50-0845 for the cost of such extension.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual name	Barry Gaiman Daly, Crowley & Mofford, LLP	Reg. No. 42,562
Signature		
Date	12/17/01	

CERTIFICATE OF MAILING		
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:		
12/17/01		
Typed or printed name	Barry Gaiman	
Signature		Date 12/17/01

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED  
Technology Center 2600  
JAN 15 2002



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: James T. Hanson, et al.

Application No.: 09/931,593

Filed: August 16, 2001

Entitled: VIDEO AMPLIFIER FOR A RADAR  
RECEIVER

Docket No.: RTN-144PUS

Group Art Unit: 2622

Examiner: Not Yet Assigned

RECEIVED  
JAN 15 2002  
Technology Center 2600

Certificate of Mailing (37 C.F.R. 1.8(a))

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first-class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on the date set forth below.

12/17/01

Date of Signature  
and Mail Deposit

By: Barry Gaiman  
Barry Gaiman  
Reg. No. 42,562  
Attorney for Applicant

LETTER UNDER 37 C.F.R. §1.56

Assistant Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Applicant would like to bring to the attention of the Examiner in the above-identified application the existence of the following co-pending U. S. patent applications: (see attached listing).

Application No.: 09/931,593  
Filed On: August 16, 2001  
Group Art Unit: 2622  
Atty. Docket No.: RTN-144PUS

If the Examiner has any questions concerning this application or this letter, he or she is respectfully invited to telephone the undersigned attorney.

Respectfully submitted,

DALY, CROWLEY & MOFFORD, LLP

Date: 12/17/01



Barry Gaiman  
Reg. No. 42,562  
Attorney for Applicant

275 Turnpike Street – Suite 101  
Canton, MA 02021-2310  
Tel: (781) 401-9988 x 11  
Fax: (781) 401-9966



Application No.: 09/931,593  
Filed On: August 16, 2001  
Group Art Unit: 2622  
Atty. Docket No.: RTN-144PUS

Atty. Docket No.	Application Nos.	Filed
RTN-108AUS	09/931,631	2001-08-16, ISSUED
RTN-142PUS	09/931,633, 6492949	2001-08-16, ISSUED
RTN-143PUS	09/930,869, 6577269	2001-08-16, ISSUED
RTN-113AUS	09/949,295, 6675094	2001-09-07, ISSUED
RTN-124PUS	09/931,632, 6443512	2001-08-16, ISSUED
RTN-145PUS	09/931,636	2001-08-16, ISSUED
RTN-146PUS	09/930,868, 6489927	2001-08-16, ISSUED
RTN-147PUS	09/932,574, 6642908	2001-08-16, ISSUED
RTN-148PUS	09/930,867, 6683557	2001-08-16, ISSUED
RTN-150PUS	09/931,277, 6501415	2001-08-16, ISSUED
RTN-121PUS	09/930,874, 6657581	2001-08-16, ISSUED
RTN-122PUS	09/931,276	2001-08-16, PENDING
RTN-123PUS	09/931,630	2001-08-16, ISSUED

RECEIVED  
JAN 15 2002  
Technology Center 2600

ALL OF THE ABOVE PRINTED  
AS PATENTS WERE CHECKED.  
OTHERS WERE CHECKED AS  
TO TITLE, AND NOT JUDGED  
PERTINENT.

GREGORY 2/9/04



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: James T. Hanson, et al.  
Serial No.: 09/931,593  
Filed: August 16, 2001  
Entitled: VIDEO AMPLIFIER FOR A RADAR RECEIVER  
Docket: RTN-144PUS

Group Art Unit: 2622

Examiner: Not Assigned

JAN 15 2002

Technology Center 2622

RECEIVED  
JAN 15 2002  
Technology Center 2622

Certificate of Mailing (37 C.F.R. 1.8(a))

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to:  
Assistant Commissioner for Patents, Washington, D.C. 20231 on the date set forth below.

12/17/01

Date of Signature  
and Mail Deposit

By: Barry Gaiman  
Barry Gaiman  
Reg. No. 42,562  
Attorney for Applicant(s)

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, DC 20231

Dear Sir:

It is desired to cite for the record in this application the enclosed documents listed on the attached copy of PTO Form #1449. The paragraph(s) marked below are applicable to this Information Disclosure Statement.

(1) The enclosed Information Disclosure Statement is being filed: within three months of the filing date; or within three months of the entry of the national stage of the above-identified application; or before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing

**of a request for continued examination under 37 C.F.R. §1.114. Accordingly,**

**Applicant(s) believes that no fee or statement is required.**

[ ] (1a) Applicant(s) believe the enclosed Information Disclosure Statement is entitled to the benefit of 37 C.F.R. § 1.97 (b) (3). Accordingly, Applicant(s) believe that no fee or statement is required.

[ ] (1b) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by:

[ ] a statement under 37 C.F.R. § 1.97(e); [ ] the fee set forth in § 1.17(p).

**PETITION UNDER 37 C.F.R. § 1.97(d)**

[ ] (2) Pursuant to 37 C.F.R. § 1.97(d), Applicant(s) hereby petition the Assistant Commissioner to consider the attached Information Disclosure Statement. Applicant(s) state that the issue fee has not been paid and that a statement under 37 C.F.R. § 1.97(e) is provided herein, along with the petition fee of \$180.00 required under 37 C.F.R. § 1.17(i).

**STATEMENT UNDER 37 C.F.R. § 1.97(e) (1)**

[ ] (3) The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement.

**STATEMENT UNDER 37 C.F.R. § 1.97 (e) (2)**

[ ] (4) The undersigned hereby states that no item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to any individual

having a duty of disclosure as set forth in 37 C.F.R. § 1.56 (c) more than three months prior to the filing of the accompanying Information Disclosure Statement.

The filing of this Information Disclosure Statement is not a representation by the undersigned as to personal knowledge of the contents of every word or phrase of the material enclosed or that reliance on other suitably trained professionals has not been made.

If a search report of a searching agency is enclosed identifying the nature of the relevance of each document, such a designation is deemed to satisfy Rule 98(a) (3) even if in a foreign language, since the few terms of relevance therein are deemed of universal cognizance. However, Applicant(s) does not necessarily adopt the position reflected by that report.

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 500845.

Respectfully submitted,

DALY, CROWLEY & MOFFORD, LLP

By: Barry Gaiman

Barry Gaiman  
Reg. No. 42,562  
Attorney for Applicant(s)

Dated: 12/17/01  
275 Turnpike Street – Suite 101  
Canton, MA 02021-2310  
Telephone: (781) 401-9988  
Facsimile: (781) 401-9966

Form PTO-1449 (Rev. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO. <b>RTN-144PUS</b>	APPLICATION NO. <b>09/931,593</b>
<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>								APPLICANT <b>James T. Hanson, et al.</b>	
								FILING DATE <b>August 16, 2001</b>	GROUP <b>2622</b>



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE*
	5	0	0	8	6	7	8	4/16/91	Herman			
	5	3	2	5	0	9	6	6/28/94	Pakett			
	5	5	1	7	1	9	6	5/14/96	Pakett et al.			
	5	6	7	5	3	4	5	10/7/97	Pozgay et al.			
	5	9	2	9	8	0	2	7/27/99	Russell et al.			
	5	9	5	9	5	7	0	9/28/99	Russell			
	6	0	2	6	3	4	7	2/15/00	Schuster			
	6	1	0	4	3	3	6	9/15/00	Curran et al.			
	6	1	0	7	9	5	6	8/22/00	Russell et al.			
	6	0	1	1	5	0	7	1/4/00	Curran et al.			
	6	1	1	4	9	8	5	9/5/00	Russell et al.			
	5	9	9	9	1	1	9	12/7/99	Carnes et al.			

RECEIVED  
JAN 15 2002  
Technology Center 2600

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	Barnett, Roy I. et al. "A Feasibility Study of Stripline-Fed Slots Arranged as a Planar Array with Circular Grid and Circular Boundary", IEEE, 1989, pp. 1510-1515.
	Bhattacharyya, Arum,et al. "Analysis of Srripline-Fed Slot-Coupled Patch Antennas with Vias for Parallel-Plate Mode Suppression", IEEE Transcations on Antennas and Propagation, Vol. 46, No. 4, April 1998, pp.538-545.
	Clouston E.N. et al. "A Triplate Stripline Slot Antenna Developed for Time-Domail Measurements on Phased Arrays", 1998, pp. 312-315.
	Das, Nirod K. et al. "Multiport Scattering Analysis of General Multilayered Printed Antennas Fed by Multiple Feed Ports: Part II-Applications", IEEE, 1992, pp.482-491.

Form PTO-1449 (Rev. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>RTN-144PUS</b>	APPLICATION NO. <b>09/931,593</b>
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		APPLICANT <b>James T. Hanson, et al.</b>	
		FILING DATE <b>August 16, 2001</b>	GROUP <b>2622</b>

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

**OTHER DOCUMENTS** (*including Author, Title, Date, Pertinent Pages, Etc.*)


Form PTO-1449 (Rev. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>RTN-144PUS</b>	APPLICATION NO. <b>09/931,593</b>
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		APPLICANT <b>James T. Hanson, et al.</b>	
		FILING DATE <b>August 16, 2001</b>	GROUP <b>2622</b>

OTHER DOCUMENTS (*including Author, Title, Date, Pertinent Pages, Etc.*)

	Katehi, Pisti B. et al. "Design of a Low Sidelobe Level stripline Fed Slot Array Covered by a Dielectric Layer", IEEE, 1989, pp. 978-981.
	Kimura, Yuichi et al. "Alternating Phase Single-Layer Slotted Waveguide Arrays at 25GHz Band", IEEE, 1992, pp. 141-145.
	Muir, A., "Analysis of Stripline/Slot Transition", Electronics Letter, Vol. 26 No. 15, pp.1160-1161.
	Sakaibara, Kunio et al. "A Single Slotted Waveguide Array for 22GHz Band Radio System Between Mobile Base Station", IEEE, 1994, pp. 356-359.
	Sangster, Alan et al. "A Moment Method Analysis of a Transverse Slot Fed by a Boxed Stripline", (No Date) pp. 146-149.
	Schaubert, Daniel H. et al. "Moment Method Analysis of Infinite Stripline-Fed Tapered Slot Antenna Arrays with a Ground Plane", IEEE Transactions on Antennas and Propagation, Vol. 42, No. 8, August 1994, pp.1161
	Smith, Peter "Transverse Slot Radiator in the Ground-Plane of Enclosed Stripline", 10 <sup>th</sup> International Conference on Antennas and Propagation 14.17, April 1997, 5 pages.
	Theron, Isak Petrus et al. "On Slotted Waveguide Antenna Design at Ka-Band", IEEE Trans. Vol. 32, October 1984, pp. 1425-426.
Examiner	Date Considered:  *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

RECEIVED  
JAN 15 2002  
Technology Center 2880